Owner's Manual & Safety Instructions

Save This Manual Keep this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures. Write the product's serial number in the back of the manual near the assembly diagram (or month and year of purchase if product has no number).
Keep this manual and the receipt in a safe and dry place for future reference.

a Harbor Freight Tools Brand

12 VOLT AUTO Heater / Defroster WITH LIGHT

Only use with 15 amp rated accessory power outlet.

Visit our website at: http://www.harborfreight.com
Email our technical support at: productsupport@harborfreight.com

REV 14e

ITEM 61598

When unpacking, make sure that the product is intact and undamaged. If any parts are missing or broken, please call 1-888-866-5797 as soon as possible.

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No portion of this manual or any artwork contained herein may be reproduced in any shape or form without the express written consent of Harbor Freight Tools.
Diagrams within this manual may not be drawn proportionally. Due to continuing improvements, actual product may differ slightly from the product described herein. Tools required for assembly and service may not be included.

⚠WARNING

Read this material before using this product. Failure to do so can result in serious injury. SAVE THIS MANUAL.

IMPORTANT SAFETY INFORMATION

Mounting Precautions

1. Mount the Heater on a stable surface with at least 2 inches of air space around the sides of the unit.
2. Do not allow anything to come in contact with the Heater.
3. Do not mount the Heater on upholstered seats or flammable surfaces.
4. Verify that installation surface has no hidden wires or other components before drilling or driving screws.
5. Wear ANSI-approved safety goggles during mounting.
6. Do not mount when tired or when under the influence of alcohol, drugs or medication.

Use Precautions

1. **This product is not a toy.** Do not allow children to play with or near this item.
2. **Do not leave heater plugged in while starting vehicle or while vehicle's engine is off. Low voltage during these circumstances will increase heat in the wiring and may blow the fusible link in the receptacle or another fuse.**
3. **Check vehicle manual to ensure the 12V accessory outlet is rated at 15 amps or greater. Do not use a socket extension or pigtail to operate this Heater.**
4. Risk of Burns! Keep children and pets away from this unit while it is hot. Do not place hands or feet near the vent.
5. Replace the fuse only with another 15 amp fuse of the same type.
6. Only use this Heater for up to 20 minutes at a time.
7. Keep this product dry.
8. Do not operate other 12VDC appliances at the same time as the Heater.
9. Do not leave the Heater unattended when it is plugged in. Unplug the Heater before leaving the vehicle.
10. Use as intended only.
11. Inspect before every use; do not use if parts are loose or damaged.
12. Do not use the Heater if Power Switch does not turn it on or off.
13. WARNING: The cord of this product contains lead, a chemical known to the State of California to cause cancer, and birth defects or other reproductive harm. Wash hands after handling. (California Health & Safety Code § 25249.5, *et seq.*)
14. Maintain product labels and nameplates. These carry important safety information. If unreadable or missing, contact Harbor Freight Tools for a replacement.

Mounting Instructions

Read the ENTIRE IMPORTANT SAFETY INFORMATION section at the beginning of this document including all text under subheadings therein before set up or use of this product.

⚠WARNING

TO PREVENT FIRE:
Do not mount the Heater on upholstered seats or flammable surfaces.
Mount the Heater on a stable surface with at least 2 inches of air space around the sides of the unit.

Mounting with Screws

WARNING! Verify that installation surface has no hidden wires or other components before drilling or driving screws.

1. Verify that the Power Cord will reach the 12V accessory outlet from the mounting location.
2. Remove the Base (19) by sliding it off the Heater Housing horizontally.
3. Using the Base as a template, mark locations of mounting holes.
4. Using a drill bit slightly smaller than the Screws (21), drill pilot holes into the marked locations.
5. Position Base so that mounting holes align with pilot holes.
6. Attach the Base with the Screws.

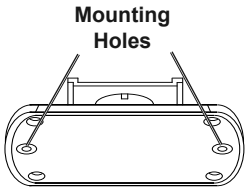


Figure A

Mounting with Adhesive Strip

1. Verify that the Power Cord will reach the 12V accessory outlet from the mounting location.
2. Remove the Base (19) by sliding it off the Heater Housing horizontally.
3. Wipe the Base and mounting surface with alcohol. Allow the alcohol to evaporate.
4. Peel off one side of the Adhesive Strip's (20) backing. Place the strip on the Base, then press down and hold for one minute to adhere.
5. Peel off the other side of the backing and position the Base on the mounting surface, then press down and hold for one minute to adhere. Leave in place for an hour before use.

Specifications

Power Source	12VDC, 12.5A
Power Consumption	Max. 150W
Power Cord	78″ L
Fuse	15A

Only use with 15A rated accessory power outlet.

Check vehicle manual.

Controls

Operating Instructions

NOTICE: To prevent blowing a fusible link on the receptacle, only use with 15 amp rated 12V accessory power outlet.

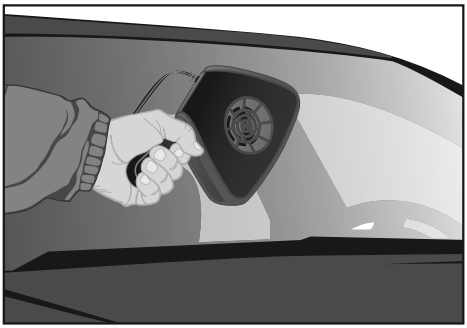
1. Place the Power Switch (11) and the LED Switch (16) in their O (off) positions. Plug into a 15A rated 12V accessory power outlet ONLY.

Note: This heater can burn out lighter sockets.

2. Mount on dashboard, or hold over windshield for spot defrosting. Use for up to 20 minutes, and then shut off for at least 5 minutes.
3. The Heater can be removed from the Mounting Base (6). By holding the Handle (4/5) the Heater can be moved around as needed.
4. The LED Switch (16) turns the lights on/off.
5. To select either the fan only or the heater and fan, press the Power Switch (11) to the setting as marked. Toggle the Power Switch to the center position to turn off these functions.

WARNING! Do not operate longer than 20 minutes at one time, allow heater to cool completely after use.

6. Unplug the Heater before leaving the vehicle.



If heater suddenly stops operating:

WARNING! TO PREVENT FIRE: Replace fuse only with fuse of same type and rating.

1. Pull the Fuse (15) out of the Fuse Holder.
   If the wire inside the Fuse is broken the Fuse needs to be replaced, otherwise insert the Fuse back into the Holder and proceed to the next step.
2. If the heater's Fuse was not blown, connect another 12VDC device to the 12V accessory outlet to check it.
   a. If the receptacle works, have the heater serviced by a qualified technician.
   b. **If the receptacle does not work, DO NOT USE THIS HEATER WITH THAT RECEPTACLE. That receptacle is evidently not rated to 15A, as this Heater requires. Receptacles with a lower rating will be permanently disabled by this heater's amp draw.**

Note: Check vehicle's service manual for instructions on repairing the receptacle. Likely failure points are the fusible link on the receptacle itself or the vehicle's fuse.

Maintenance and Servicing

Procedures not specifically explained in this manual must be performed only by a qualified technician.

⚠WARNING

TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:
Turn Power Switch to its "off" position, unplug the Heater from its outlet, and allow it to cool completely before performing any inspection, maintenance, or cleaning procedures.

TO PREVENT SERIOUS INJURY FROM HEATER FAILURE:
Do not use damaged equipment. If abnormal noise or vibration occurs, have the problem corrected before further use.

1. **BEFORE EACH USE,** inspect the general condition of the Heater. Check for:
   - loose hardware,
   - misalignment or binding of moving parts,
   - cracked or broken parts,
   - damaged electrical wiring, and
   - any other condition that may affect its safe operation.
2. **AFTER USE,** wipe external surfaces of the Heater with clean cloth. Do not use flammable liquids or harsh detergents to clean the Heater. **Do not submerge in fluid.**
3. Store the Heater in a dry location out of direct sunlight and out of the reach of children.
4. Replace Fuse with the same type and rating only.

Record Serial Number Here:

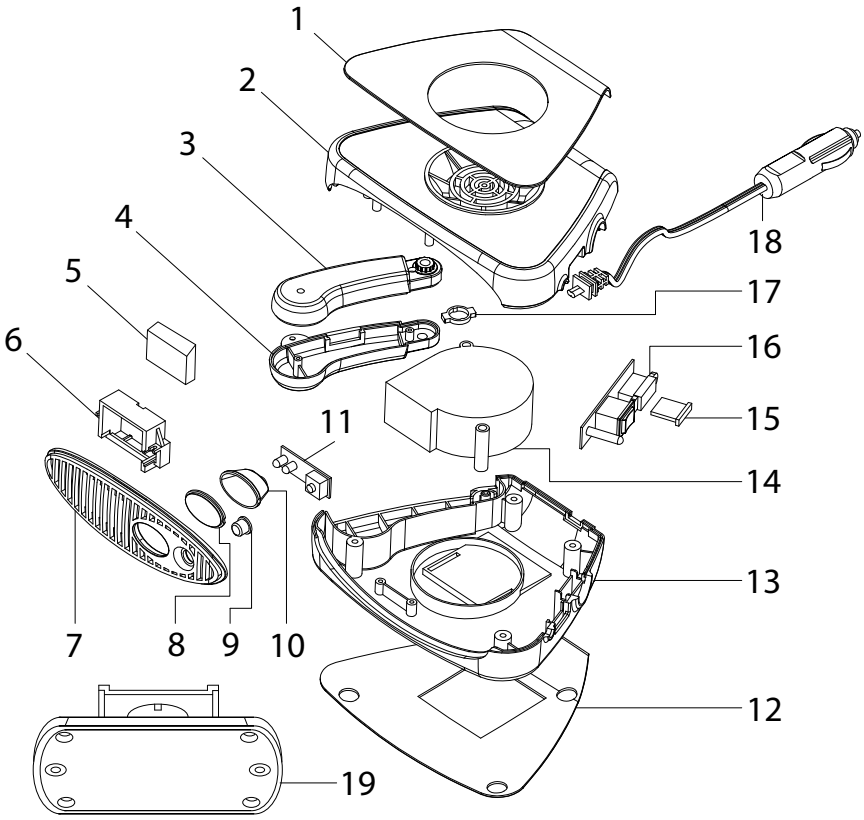
Note: If product has no serial number, record month and year of purchase instead.

Note: Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts.

Parts List and Diagram

Part	Description	Qty.
1	Housing Cover	1
2	Upper Housing	1
3	Upper Handle	1
4	Lower Handle	1
5	PTC Heating Element	1
6	PTC Holder	1
7	Air Vent Grill	1
8	LED Cover	1
9	LED Switch	1
10	LED Reflector	1
11	LED Circuit Board	1

Part	Description	Qty.
12	Lower Housing Cover	1
13	Lower Housing	1
14	Fan Assembly	1
15	Fuse (15A)	1
16	Printed Circuit Board	1
17	Spline	1
18	12V Accessory Outlet Adapter	1
19	Base	1
20	Adhesive Strip (not shown)	1
21	Screw (not shown)	2



PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS LIST AND ASSEMBLY DIAGRAM IN THIS DOCUMENT AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER OR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT, OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS, AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

Limited 90 Day Warranty

Harbor Freight Tools Co. makes every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of 90 days from the date of purchase. This warranty does not apply to damage due directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, criminal activity, improper installation, normal wear and tear, or to lack of maintenance. We shall in no event be liable for death, injuries to persons or property, or for incidental, contingent, special or consequential damages arising from the use of our product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS.

To take advantage of this warranty, the product or part must be returned to us with transportation charges prepaid. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection verifies the defect, we will either repair or replace the product at our election or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

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